

Fig. 1A

ATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTGTCCTGCAGCTCCGC
TCGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGC
TGGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCCTCGGCA
CCCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCA
CCTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG
GGGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 1B

CGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGCT
GGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCCTCGGCAC
CCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCAC
CTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTGG
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 1C

TTCTTAGTGGGCTCGGCCAAGCCTGTGGCCAGCCTGTCGCTGCGCTGGAGTC
GGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCCTCGGCACCCTCAAC
CCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCACCTCATAG
AGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTGGGGGCCGT
GAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 2A

MKLAALLGLCVALSCSSARAFLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTL
NPLKLLSSLGIPVNHLIEGSQKCVAELGPQAVGAVKALKALLGALT VFG

Fig. 2B

RAFLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHLIE
GSQKCVAELGPQAVGAVKALKALLGALT VFG

Fig. 2C

FLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHLIEGS
QKCVAELGPQAVGAVKALKALLGALT VFG

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Fig. 3A

ATGAAGCTTACCACCACCTTTCTAGTGCTCTGTGTGGCTCTGCTCAGTGACTC
TGGTGTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGG
CCGCCCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACC
ATTAAGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCAT
TGGATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGA
GGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTTCGGT

Fig. 3B

GTTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGC
CCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATT
AGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATTTG
ATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGC
TGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTTCGGT

Fig. 3C

TTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGCCCTTGC
TCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAAGCCAC
TTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATTTGGATCCTCT
CATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTTCGGT

Fig. 4A

MKLTTTFLVLCVALLSDSGVAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPL
SHLAILRFILASMGIPLDPLIEGSRKCVTELGPEAVGAVKSLLGVLTMTFG

Fig. 4B

VAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLI
EGSRKCVTELGPEAVGAVKSLLGVLTMTFG

Fig. 4C

FFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLIEG
SRKCVTELGPEAVGAVKSLLGVLTMTFG

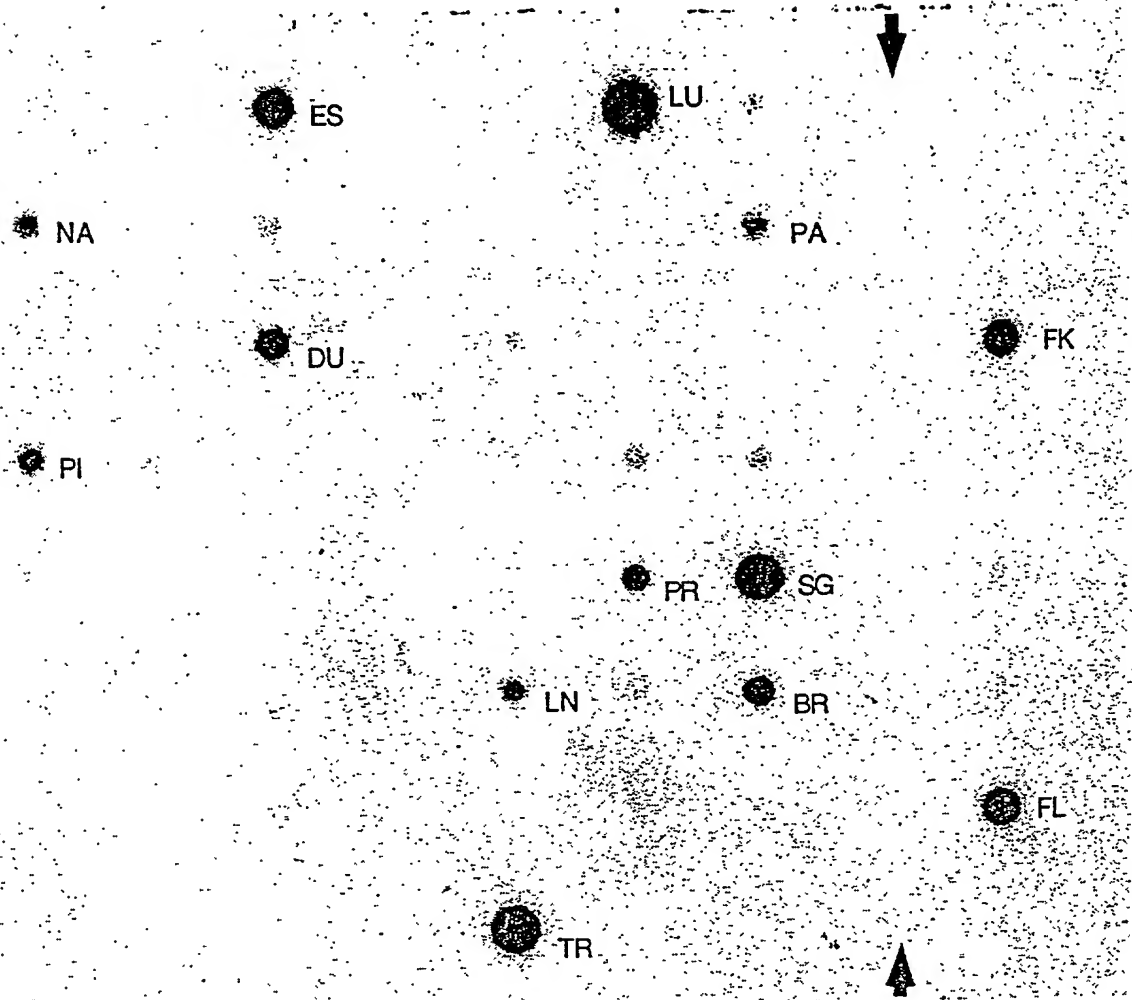


Fig. 5A

PANCREAS
KIDNEY
MUSCLE
LIVER
LUNG
PLACENTA
BRAIN
HEART
PBL
COLON
SM. INTESTINE
OVARY
TESTIS
PROSTATE
THYMUS
SPLEEN

Fig. 5B

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Fig 5C

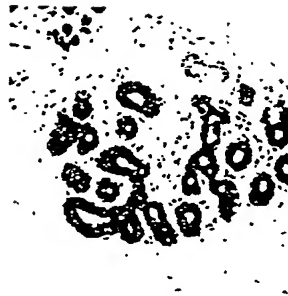


Fig.5D



Fig.5E

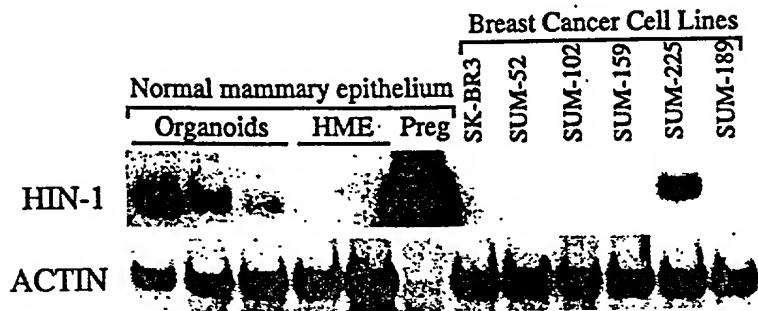


Fig. 5F

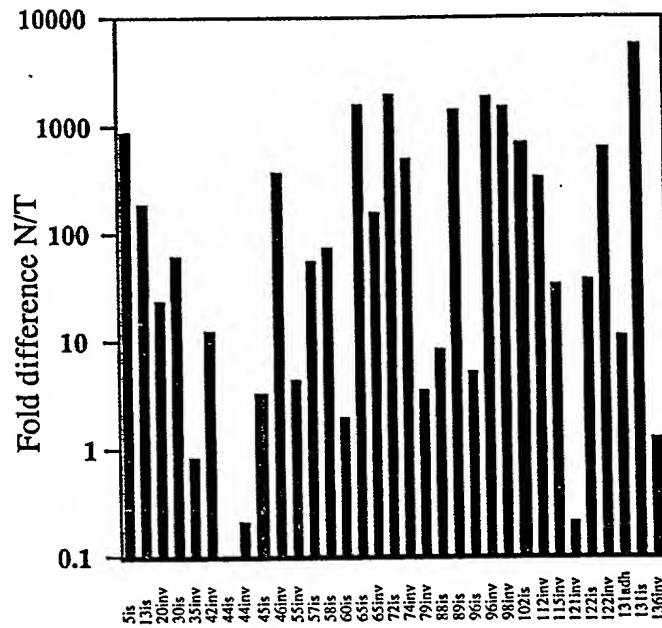
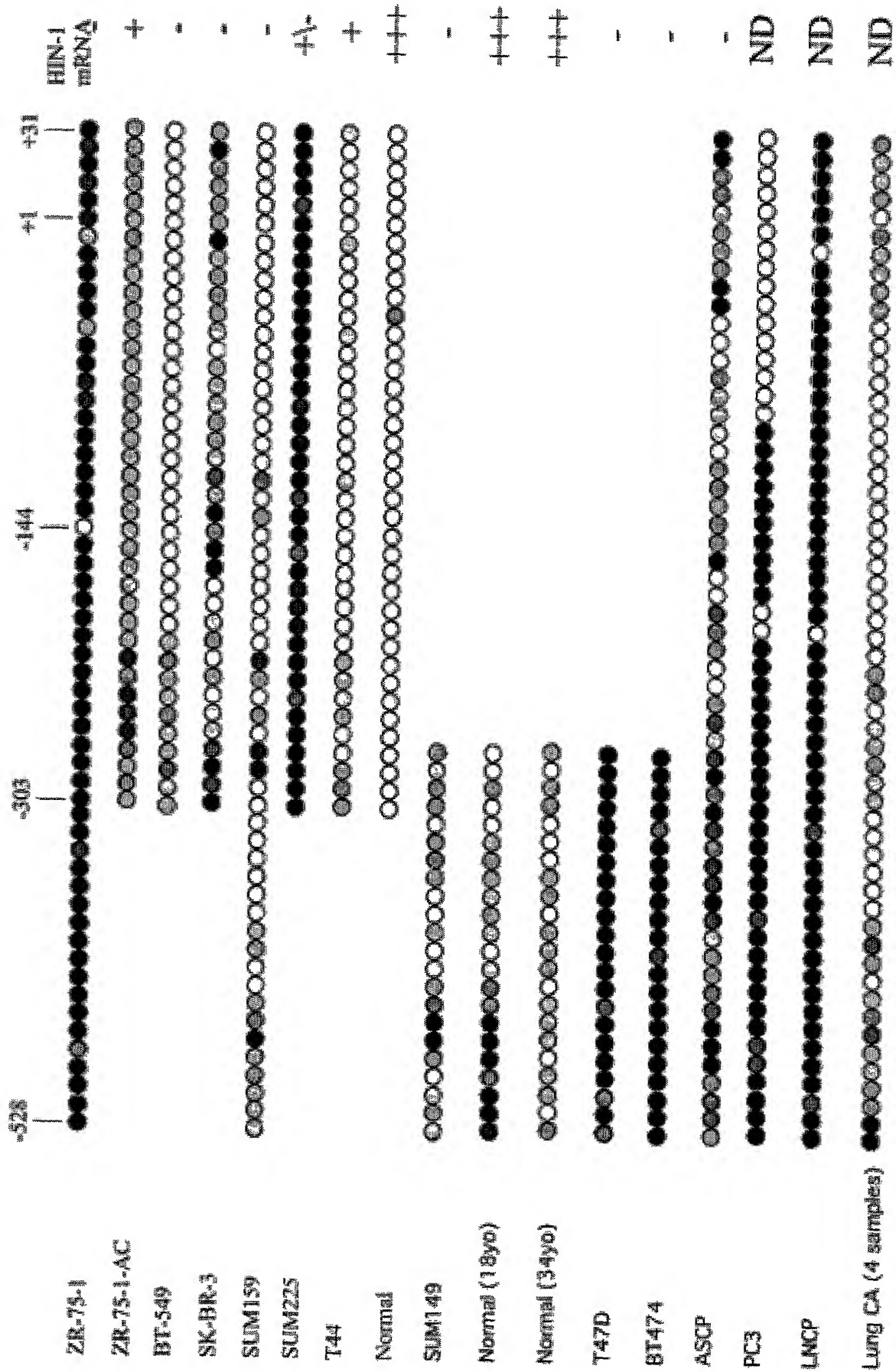


Fig. 5Gr.

Fig. 6A



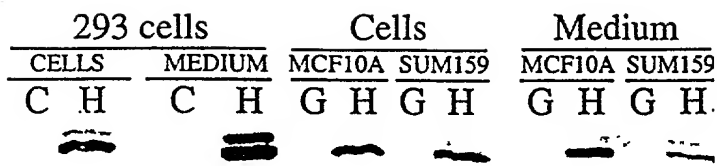


Fig. 7

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Fig. 8

CGGCCGGGGAGGCGGCCGGGAGTGAGGCCTGATCGTCCCTGGCGCCTCCACC
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GGTCTGGGATCAGAGGCAGGGACCAGGGAGCCAGGAAGTGCGCCGCCCGG
CCCCTGCCCTGGCGCGAGGGAAGCTCCCTCACCNGAGGGAAGCTCCCCTCAC
CCGGCCCAGCCCTGCAGGGGGGCGCGTGGGGTCAGACCGCAAAGCGAAGGT
GCGGGCCGGGGTGGGCCTCGCGGAGACAAAGGCCGGGCCTGCCTCTCTCAGA
GGGCCCCAGCGCCTGCCAAGAGGAAGTCCTCGAGGCCCGGGCAGGGAAGGG
GGCACGGGCTTCCCAGGGCCCGCCGGCCGCAGCAGGAAGTTGGCCAGGGCA
CGGCCGTGAGCGGAGCGGGCAGGGCTTTCTCAGGAGCGCGGGCGAGGCCGG
CGCTGGAGGGGCGAGGACCGGGTATAAGAAGCCTCGTGGCCTTGCCCCGGG
AGCCGCAGGTTCCCCGCGCGCCCCGAGCCCCCGCGCC

Fig. 9A

GTTCTCTGTTTTGTGTTGGTAGGCGTTGCTTTCTTGGTGGATTCACTGGCCAAG
CCTGTGGTAGAACCCGTGGCTGCCATTGCTACAGCTGCAGAGGCTGTGGCAG
GGGCTGTGCCTAGCCTACCATTAAGCCACTTGGCCATCCTGAGGTTTCATCGTG
ACCAGCCTGGGCATCCCATTGGATCCTCTCATAGATGGTTCCAGGAAGTGCGT
CACCGAGCTGGGCCCTGAGGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGCC
CTGACAACGTTTCGGT

Fig. 9B

VLCFVLVGVAFLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSL
GIPLDPLIDGSRKCVTELGPPEAVGAVKSLLGALTTFG

Fig. 9C

TTCTTGGTGGATTCACTGGCCAAGCCTGTGGTAGAACCCGTGGCTGCCATTGC
TACAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAGCCAC
TTGGCCATCCTGAGGTTTCATCGTGACCAGCCTGGGCATCCCATTGGATCCTCT
CATAGATGGTTCCAGGAAGTGCGTCACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGCCCTGACAACGTTTCGGT

Fig. 9D

FLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSLGIPLDPLIDGS
RKCVELGPEAVGAVKSLLGALTTFG

↓

Human HIN1	M K L A A - L L G L C V A L S C S S A R A F L V G
Mouse HIN1	M K L T T T F L Y L C V A L L S D S G V A F F M D
Rat HIN-1	M K L . . . L V L C V A L . . . S V A F L . D
Human HIN1	S - A K P V A Q P V A A L E S A A E A G A C T L A
Mouse HIN1	S L A K P A V E P V A A L A P A A E A V A G A V P
Rat HIN-1	S L A K P V V E P V A A I A T A A E A V A G A V P
Human HIN1	N - P L G T L N P L K L L L S S L G I P V N H L I
Mouse HIN1	S L P L S H L A I L R F I L A S M G I P L D P L I
Rat HIN-1	S L P L S H L A I L R F I V T S L G I P L D P L I
Human HIN1	E G S Q K C V A E L G P I Q A V G A V K A L K A L L
Mouse HIN1	E G S R K C V T E L G P E A V G A V K S - - - L L
Rat HIN-1	D G S R K C V T E L G P E A V G A V K S - - - L L
	E G S R K C V T E L G P E A V G A V K S L L
Human HIN1	G A L T V F G
Mouse HIN1	G V L T M F G
Rat HIN-1	G A L T T F G
	G A L T . F G

Fig. 10

Fig. 11

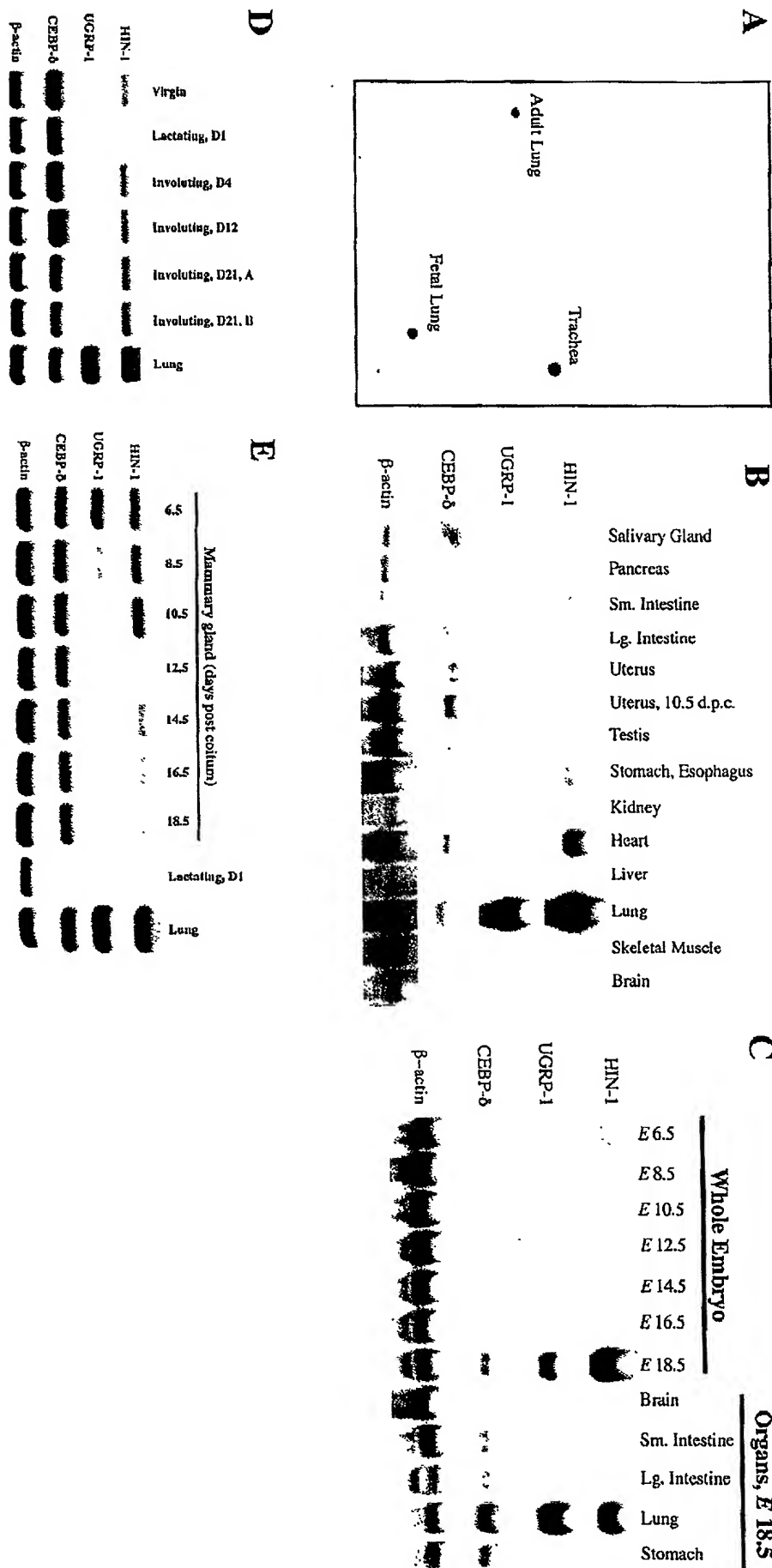


Fig. 12

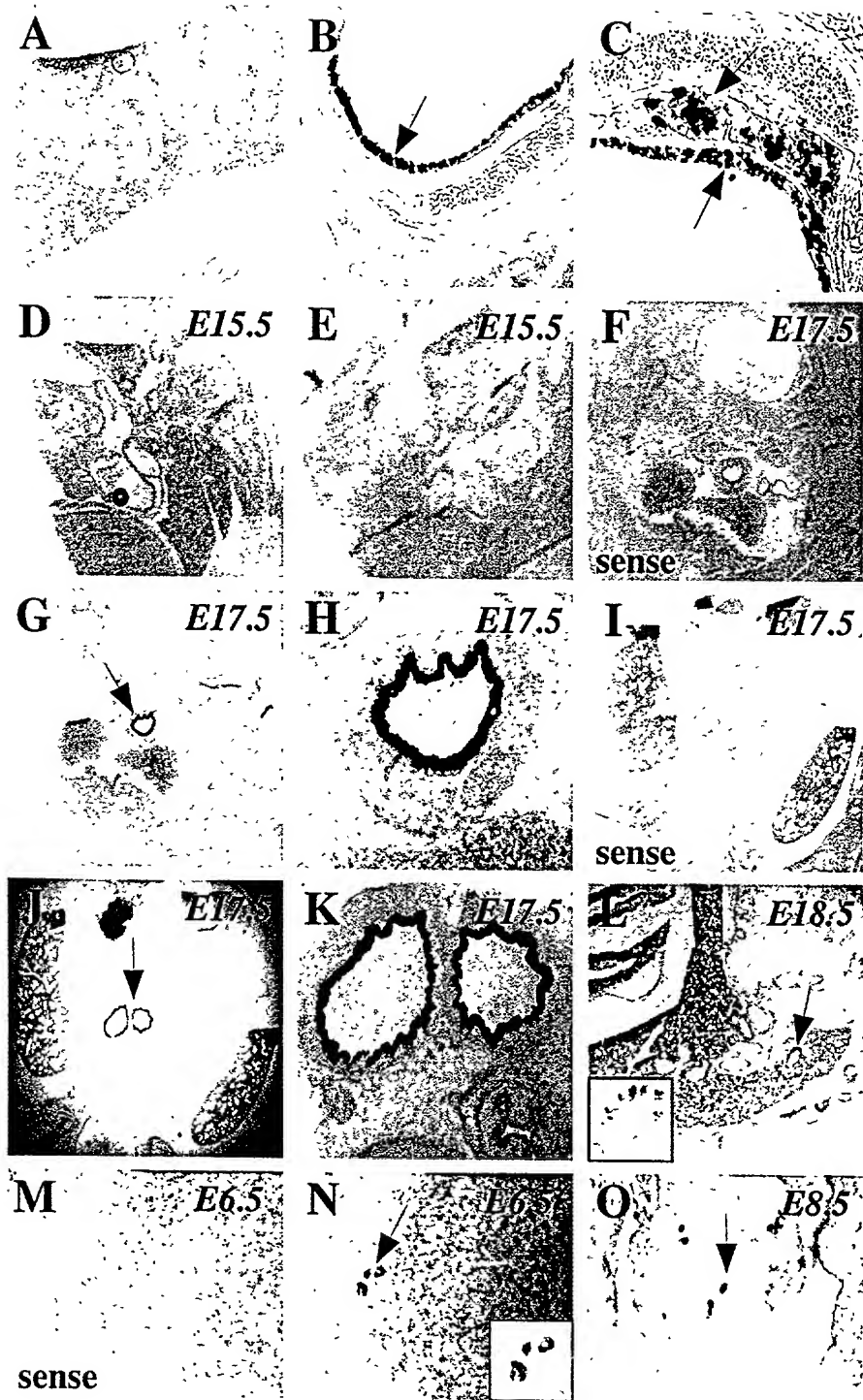


Fig. 13

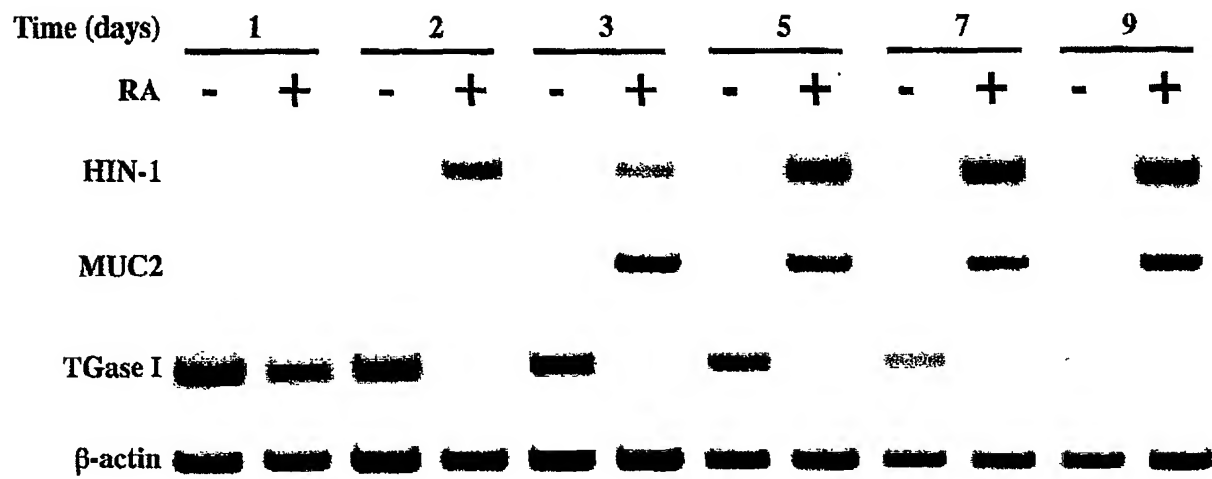


Fig. 14

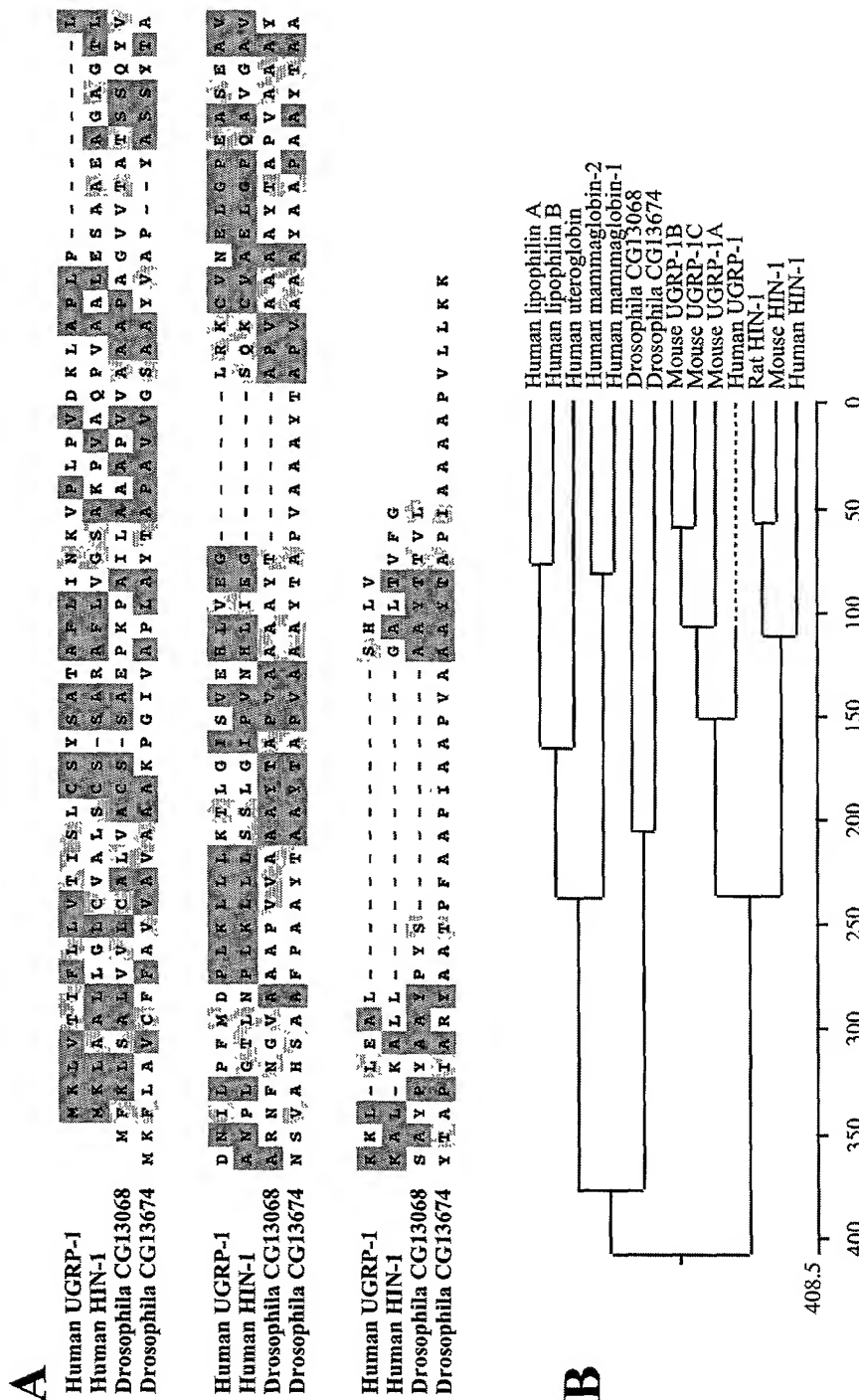


Fig. 15

ATGTTCAAGCTGTCTGCCCTCGTTGTCCTGTGCGCTCTGGTGGCCTGCTCCTCG
GCTGAGCCCAAGCCCGCTATCCTGGCCGCCGCTCCAGTGGTTGCAGCTGCTCC
TGCCGGCGTGGTACCGCTACCAAGTTCGCAGTACGTGGCCCCGCAACTTCAAC
GGTGTGGCTGCTGCTCCAGTTGTTGCCGCTGCCTACACCGCTCCAGTTGCCGC
CGCTGCCTATACCGCTCCAGTTGCCGCCGCTGCTTATACCGCTCCAGTTGCCG
CTGCCTACTCTGCTTATCCGTATGCCGCCTACCCTTACAGCGCTGCATACACC
ACTGTTTTG

Fig. 16

ATGAAATTCCTCGCCGTCTGCTTCTTCGCTGTTGTGGCTGTGGCTGCTGCCAA
ACCCGGTATTGTGGCTCCTCTGGCCTACACCGCTCCGGCTGTGGTGGGCAGTG
CCGCCTACGTGGCTCCCTACGCCTCCAGCTACACCGCCAACTCGGTGGCCCAC
AGCGCCGCCTTCCCAGCTGCCTACACCGCCGCCTACACTGCTCCCGTTGCTGC
TGCCTATACCGCTCCAGTGGCTGCTGCTTATACCGCTCCAGTGGCCGCTGCGT
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GCCGCCACCCCTTCGCAGCACCCATCGCCGCTCCCGTGGCTGCCGCCTACAC
CGCCCCATCGCCGCCGCTGCCCCAGTTCTGCTGAAGAAG